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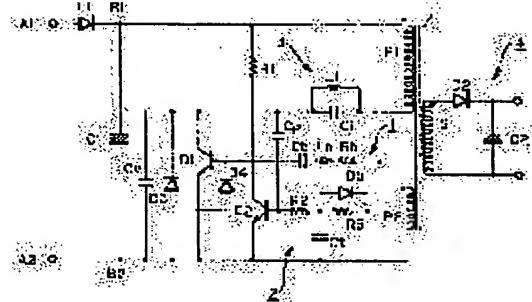
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(54) SWITCHING POWER SOURCE CIRCUIT

(57)Abstract:

PURPOSE: To provide a switching power source circuit which is reduced in cost and noise and improved in efficiency.

CONSTITUTION: A switching power source circuit is provided with a transformer T in which one end of its primary winding P1 is connected to one terminal B1 of a DC power source, a switching transistor Q1 connected between the other end of the winding P1 and the other terminal B2 of the DC power source, timing circuits 2 and 3 which control the turning on/off of the transistor Q1, and a rectifying and smoothing circuit 4 provided on the secondary side of the transformer T. In addition, a parallel circuit 3 composed of a capacitor Ci which constitutes a current resonance circuit together with the leakage inductance of the transformer T and an inductance element Li which absorbs the electric charges of the capacitor Ci is connected in series with the primary winding P1 of the transformer and a voltage resonance circuit is constituted of a capacitor Cv provided between the collector and emitter of the transistor Q1 and the main inductance of the primary winding of the transistor T.



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